# TECHNICAL REPORT 2002-006

## Single Integrated Air Picture (SIAP) Block 1 Candidate Systems

**26 June 2002**

**Single Integrated Air Picture
System Engineering Task Force
(SIAP SE TF)**
1931 Jefferson Davis Highway
Crystal Mall 3, Suite 1109
Arlington, VA 22203

20020716 096

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_____/s/_____   _____/s/_____   _____/s/_____   _____/s/_____
**RADM Mike Mathis   Col Harry Dutchyshyn   CAPT Jeffery W. Wilson   Mr Steve Karoly**

# FOREWORD

**List of Contributors**

The SIAP Block 1 Candidate Systems Technical Report is the result of collective efforts of members of the SIAP Block I Working Integrated Product Team (WIPT), who drafted the content of the report through face-to-face meetings, teleconferences, and e-mail exchanges spanning the period from February to June, 2002. The following individuals contributed to the report through their participation in either live or electronic means:

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## EXECUTIVE SUMMARY

### PROBLEM

The Department of Defense does not have an established process to initiate and synchronize Joint warfighting capability upgrades *across* the Services to produce joint warfighting capability. Since there was no process for the Single Integrated Air Picture System Engineering Task Force (SIAP SE TF) to inherit or leverage, the SIAP SE TF had to build a process to identify candidate systems that will be impacted by the SIAP Block 1 upgrade.

### OBJECTIVES

The SIAP Block 1 Candidate Systems Technical Report describes and documents the SIAP Block 1 Candidate Systems selection process and results. This Technical Report also serves as a vehicle for the solicitation of recommendations, suggestions, and insights from relevant subject matter experts, appropriate Service and Agency representatives and members of the larger Joint Integrated Air Defense System (JIADS) and Missile Defense communities to improve the technical depth, credibility, and repeatability of the SIAP SE TF Block 1 system engineering process.

### APPROACH

As part of Block 1 system engineering efforts, the SIAP SE TF developed a process to support the Services' selection of the SIAP Block 1 candidate systems. The SIAP SE TF established a Block 1 Working Integrated Product Team (WIPT) who developed the initial Block 1 selection criteria and circulated these criteria among the members and selected Service/Agency representatives. As part of the system engineering feedback process, the Block 1 WIPT members refined the selection criteria. Using these modified and improved criteria, the Services/Agency then selected a cross section of candidate systems. This system selection process is described in the body of this Technical Report.

### FINDINGS

The Block 1 Candidate Systems List serves as a domain boundary of the solution space in which the SIAP SE TF conducts its system engineering processes. The Block 1 Candidate Systems List is being used to sharpen the SIAP SE TF's engineering focus by concentrating on only the most important SIAP contributors; this is necessary to meet the December 2002 timeline for Block 1 engineering recommendations to the JROC.

The preliminary Block 1 Candidate Systems identified by the Services are listed in the following table:

| United States Army | United States Navy | United States Marines Corps | United States Air Force |
|---|---|---|---|
| A2C2S (Army Airborne Command and Control System) | AEGIS | CAC2S (Combined Air Command and Control System) | AOC (Air Operations Center) |
| Aerial Common Sensor | - B/L 5.4 | CLAWS (Complimentary Low Altitude Weapons System) | AWACS (Airborne Warning and Control System) |
| AFTDS (Advanced Field Artillery Tactical Data System) | - B/L 7.2 | - EFDC (Enhanced Fire Direction Center) | F-15 |
| Apache | CDLMS (Common Data Link Management System) | - Sentinel Radar | - A/B |
| ATCCS (Advanced Tactical Air Command Center) | - Ver 3 | - MRRS (Multi-Role Radar System) | - C/D |
| ATACMS (Army Tactical Missile) | - Ver 4 | MSCS (TACC) (Multiple Source Correlation System) (Tactical Air Command Center) | - E |
| Avenger | CEC (Cooperative Engagement Capability) | TAOC (Tactical Air Operation Center) | F-16 |
| Bde TOC (AMDPCS) (Air and Missile Defense Planning and Control System) | E-2C | - TAOM V (4) (Tactical Air Operation Module) | - Block 40/42 |
| Comanche | - Group II | - AN/TPS 59 V (3) | - Block 50/52 |
| EAAD (Enhanced Area Air Defense) | - Nav Upgrade Group II (N) | - ADCP (Air Defense Communications Platform) | MCE (Modular Control Equipment) |
| FAAD C2 (Forward Area Air Defense Command and Control) | - MCU Group II (M) | | Rivet Joint (RC 135 reconnaissance aircraft) |
| FBCB2 (Force XXI Battle Command Brigade and Below) | - Hawkeye 2000 | | |
| HIMARS (High Mobility Artillery Rocket System) | - RMP FY06 | | |
| JLENS (Joint Land Attack Cruise Missile Defense Elevated Netted System) | F/A-18 | | |
| JTAGS (M3P) (Joint Tactical Ground Station) | - C/D | | |
| Linebacker | - E/F | | |
| MLRS (Multiple Launch Rocket System) | JTIDS SICP (Joint Tactical Information Distribution System) | | |
| Patriot | MIDS (Multi-Functional Information Distribution System) | | |
| Sentinel | SSDS MK2 (Ship Self Defense System) | | |
| SLAMRAAM (Surface Launched Advanced Medium Range Air To Air Missile) | | | |
| Tactical UAV (Unmanned Aerial Vehicle) | | | |
| TAIS (Tactical Air Integration System) | | | |

During the March 2002 Block 1 WIPT session, team members discussed how to address those systems which are currently being developed by MDA, but procured by the individual Services. Though procurement authority for MDA-developed systems resides with the parent Service, for the purposes of the Block 1 effort, WIPT members agreed to group them under MDA. They are as follows:

| Missile Defense Agency |
| --- |
| **ABL** (Airborne Laser) |
| **MEADS** (Medium Extended Air Defense System) |
| **PAC-3** (Patriot Advanced Capabilities) |
| **SBIRS** (Space Based Infrared Systems) |
| **SMDS** (Strategic Missile Defense System) |
| **THAAD** (Theater High Altitude Air Defense) |
| **TPS-75** |

The WIPT members applied the same screening criteria to these Missile Defense systems to form a more complete set of systems, which contribute to building and maintaining a SIAP.

## CONCLUSIONS

By initiating and following a process to synchronize upgrades in Joint warfighting capabilities across all the Services, the SIAP SE TF facilitated the delivery of a Block 1 Candidate Systems List. This list, which represents a cross-section of the JIADS systems, is sufficient for the Block 1 team to initiate their systems engineering processes. These system engineering processes will be executed as directed by the guidelines in the Integrated Assessment Plan.

As with other SIAP SE TF products, this Technical Report is a living document. The Block 1 WIPT encourages and depends upon active participation and feedback from members of the greater SIAP community.

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## 1. INTRODUCTION

The Single Integrated Air Picture System Engineer chartered the Block 1 Working Integrated Product Team (WIPT) to lead the system engineering efforts necessary to develop engineering recommendations, with supporting rationale, that address the United States Joint Forces Command (USJFCOM) endorsed Block 1 issues.[1] Ultimately, the Block 1 WIPT will leverage existing analyses to identify and recommend the most effective and efficient means (or "fixes") to achieve a SIAP capability that satisfies Joint Requirements Oversight Council (JROC)-validated warfighting requirements. The product of these recommendations will be combat-ready, operationally certified equipment and computer programs that enable the warfighter to build and maintain a SIAP, as well as inputs to tactics, techniques, and procedures (TTP) necessary to operate the components of the integrated system.

In accordance with the Block 1 Subject Matter Expert (SME) Statement of Work (SOW), the SIAP SE TF tasked the Block 1 WIPT SMEs to develop selection criteria that would be used to identify the Block 1 Candidate Systems. This Technical Report describes and documents the process of how the selection criteria was developed and the resulting Service list of applicable systems. A secondary objective of this Technical Report is to serve as a vehicle for the solicitation of recommendations, suggestions, and insights from relevant subject matter experts, appropriate service representatives and members of the larger Joint Integrated Air Defense System (JIADS) community. This feedback will improve the technical depth, credibility, and repeatability of the SIAP SE-tailored, IEEE Std 1220-1998 based system engineering process.

## 2. WIPT STRUCTURE

The SIAP Block 1 WIPT is comprised of a core team, which is supported by SIAP SE TF members and Office of the Secretary of Defense (OSD), USJFCOM, Joint Staff, and Department of Defense (DoD) Agencies (as required).

SIAP Block 1 Core Members:
- SIAP SE TF Block 1 Lead (Chair)
- SIAP SE TF Block 1 Issue Leads
- USA Subject Matter Experts (SMEs)
- USN SMEs
- USMC SMEs
- USAF SMEs
- JTAMDO Rep
- MDA Rep

Principle Advisors:
- SIAP Analysis Team (SAT) [Rep]
- SIAP Architecture WIPT [Rep]
- Acquisition Roadmap Team (ART) [Rep]

## 3. SELECTION PROCESS AND CRITERIA

The list of systems that is specified in Appendix D of the JROC-validated Theater Air Missile Defense (TAMD) Capstone Requirement Document (CRD) contains more than 200 systems that are

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[1] The SIAP SE TF Block 1 Issues Technical Report will detail the Block 1 issues selection process and the resulting product.

categorized as primary or secondary systems. It is understood that the TAMD CRD lists only those systems appropriate as of the CRD validation date; new or revised systems may not be listed but must be considered. The Block 1 WIPT started its screening process with these systems.

The WIPT agreed upon the following selection criteria. Candidate systems had to:

    a. Be listed on the TAMD CRD Primary System list.
- Rationale: The primary systems have been validated by the JROC as systems that are significant contributors to the TAMD mission.
- Exception: New systems which are planned to be fielded may not have been included the TAMD CRD, which reflected only those systems known/expected as of the date of validation. Therefore, additional systems may be included at the nomination of a service or agency.

    b. Be a tactical system or operate in support of a tactical system.
- Rationale: SIAP focuses at this level (e.g., not at the strategic level).

    c. Operate primarily in Joint Air Operations.
- Rationale: SIAP focuses on Air Operations. Systems that operate primarily in support of other mission areas (e.g., undersea warfare) are not considered as primary contributors.

    d. Not be a weapon (e.g., STANDARD Missile, Hellfire).
- Rationale: These are not contributors to the SIAP.

    e. Be a track source, translator/forwarder, or Precise Participant Location and Identification (PPLI) transmitter; also may be a data consumer.
- Rationale: The systems that generate or consume information that flows across the SIAP should be the primary focus.
- Rationale: Data consumers will establish requirements for SIAP information and may be required to implement/modify receipt and processing functionality.

    f. Be fielded and operational, or in the process of defining technical requirements, anytime during the Block 1 implementation time frame (FY05 – FY10), but excluding systems leaving service prior to FY12.
- Rationale: Consider only those systems that are expected to be contributors, or in a critical stage of development, during the focus time frame.

After applying the above criteria, the WIPT subsequently filtered out those systems that were deemed to only provide a marginal contribution. Services also had the opportunity to nominate systems that required special consideration or may not have made it through the culling process.

## 4. SYSTEM CANDIDATE SELECTION

| United States Army | United States Navy | United States Marines Corps | United States Air Force |
|---|---|---|---|
| **A2C2S** (Army Airborne Command and Control System) | **AEGIS** | **CAC2S** (Combined Air Command and Control System) | **AOC** (Air Operations Center) |
| **Aerial Common Sensor** | **- B/L 5.4** | **CLAWS** (Complimentary Low Altitude Weapons System) | **AWACS** (Airborne Warning and Control System) |
| **AFTDS** (Advanced Field Artillery Tactical Data System) | **- B/L 7.2** | **- EFDC** (Enhanced Fire Direction Center) | **F-15** |
| **Apache** | **CDLMS** (Common Data Link Management System) | **- Sentinel Radar** | **- A/B** |
| **ATCCS** (Advanced Tactical Air Command Center) | **- Ver 3** | **- MRRS** (Multi-Role Radar System) | **- C/D** |
| **ATACMS** (Army Tactical Missile) | **- Ver 4** | **MSCS (TACC)** (Multiple Source Correlation System) (Tactical Air Command Center) | **- E** |
| **Avenger** | **CEC** (Cooperative Engagement Capability) | **TAOC** (Tactical Air Operation Center) | **F-16** |
| **Bde TOC (AMDPCS)** (Air and Missile Defense Planning and Control System) | **E-2C** | **- TAOM V (4)** (Tactical Air Operation Module) | **- Block 40/42** |
| **Comanche** | **- Group II** | **- AN/TPS 59 V (3)** | **- Block 50/52** |
| **EAAD** (Enhanced Area Air Defense) | **- Nav Upgrade Group II (N)** | **- ADCP** (Air Defense Communications Platform) | **MCE** (Modular Control Equipment) |
| **FAAD C2** (Forward Area Air Defense Command and Control) | **- MCU Group II (M)** | | **Rivet Joint** (RC 135 reconnaissance aircraft) |
| **FBCB2** (Force XXI Battle Command Brigade and Below) | **- Hawkeye 2000** | | |
| **HIMARS** (High Mobility Artillery Rocket System) | **- RMP FY06** | | |
| **JLENS** (Joint Land Attack Cruise Missile Defense Elevated Netted System) | **F/A-18** | | |
| **JTAGS (M3P)** (Joint Tactical Ground Station) | **- C/D** | | |
| **Linebacker** | **- E/F** | | |
| **MLRS** (Multiple Launch Rocket System) | **JTIDS SICP** (Joint Tactical Information Distribution System) | | |
| **Patriot** | **MIDS** (Multi-Functional Information Distribution System) | | |
| **Sentinel** | **SSDS MK2** (Ship Self Defense System) | | |
| **SLAMRAAM** (Surface Launched Advanced Medium Range Air To Air Missile) | | | |
| **Tactical UAV** (Unmanned Aerial Vehicle) | | | |
| **TAIS** (Tactical Air Integration System) | | | |

Table 1. Block 1 Candidate Systems

Unlike SIAP Block 0, candidate Block 1 systems include Ballistic Missile Defense (BMD) systems, as there are ballistic missile related issues contained in the Block 1 Issues list. During the March 2002 Block 1 WIPT meeting, team members discussed how to address those systems which are currently being developed by MDA, but procured by the individual Services. Though procurement authority for MDA-developed systems resides within the parent service, for the purposes of the Block 1 effort, WIPT members agreed to group them under MDA. Table 2 shows these systems:

| Missile Defense Agency |
| --- |
| **ABL** (Airborne Laser) |
| **MEADS** (Medium Extended Air Defense System) |
| **PAC-3** (Patriot Advanced Capabilities) |
| **SBIRS** (Space Based Infrared Systems) |
| **SMDS** (Strategic Missile Defense System) |
| **THAAD** (Theater High Altitude Air Defense) |
| **TPS-75** |

## Table 2. MDA Block 1 Candidate Systems

The WIPT applied the same screening criteria to these BMD systems to form a more complete set of systems, which contribute to improved SIAP across the full spectrum of Missile Defense.

As part of the WIPTs' procedures, this candidate list was vetted through the appropriate Service/Agency representatives. The tables above represent the output of the service vetting process. It is by no means final and complete, and the SIAP SE TF encourages frequent review and feedback from the services. The Block 1 WIPT lead distributed comment resolution forms to the appropriate Service/Agency representatives. The SIAP SE TF resolved and adjudicated these comments; results can be found in Appendix B.

For additional information on the Block 1 candidate systems' technical specifications, refer to the Joint Tactical Air Operations Procedural Handbook.

## 5. BLOCK 1 WAY AHEAD

The Joint Requirements Oversight Council tasked the SIAP SE TF to perform system engineering of current, programmed, and proposed air and missile defense systems, networks, and interfaces, as well as external supporting systems, such as global navigation and time distribution systems.

The SIAP SE is prioritizing SIAP issues and shortfalls warranting correction and (in close collaboration and partnership with JTAMDO) assessing the expected operational benefits and military utility of correcting such shortfalls. Representatives from the Joint Staff, the Military services, the Joint Air and Missile Defense Organization, the Missile Defense Agency, Department of Defense

Agencies, and TAMD system program offices are key and permanent contributors to the SIAP system engineering process.

Using the Block 1 Candidate Systems list as a starting point, the SIAP SE TF, in conjunction with the Services, is focusing its system engineering efforts on a subset of systems for modeling and simulation, Hardware-in-the-loop (HWIL), and Operator-in-the-Loop (OITL) analyses. The SIAP SE TF conducts Block 1 Issues analyses as prescribed by the Integrated Assessment Plan (IAP). The SIAP SE TF uses these specific Common Reference Scenario (CRS) vignette excursions for Block 1 Issue-specific analyses. A separate Technical Report discusses the origin and process used to develop the Block 1 issues.[2]

The Candidate Block 1 Systems list is not meant to imply that any of the listed systems is either deficient or is a candidate for implementation of all recommended Block 1 system improvements ("fixes"). SIAP SE TF analyses, with support from the Services, and using appropriate tools, determines the improvement to the SIAP for each of the identified Block 1 improvements.

The SIAP SE TF Cost/Benefit Analysis measures benefits from the SIAP Analysis Team analysis (vetted through JTAMDO) with cost estimates provided by each Service's Program Offices. Block 1 recommendations cut across the modeled "Family of Systems". Additionally, services may "map" benefits of like systems in order to conduct additional Cost Benefit Analysis on systems not included in the original modeling and simulation. The CBA provides SIAP System Engineer with information on which to make Block 1 recommendations to the JROC.

Appendix A speaks to the current acquisition category (ACAT) status of the Block I systems as well as documents the dates and currency of the appropriate ORDs and CRDs. It is for reference purposes only.


## 6. CONCLUSIONS

The Block 1 WIPT developed candidate systems selection criteria that enabled the Services to develop an initial systems list. This list, which represents a cross-section of the JIADS systems, is sufficient for the Block 1 team to initiate their systems engineering processes.

Services and Agencies are requested to provide the SIAP SE TF with comments and recommendations for improving the Block Candidate Systems selection criteria/process. The Block 2 WIPT will tailor the selection criteria/process, based on Service and Agency feedback for use in selecting Block 2 Candidate Systems.

As with other SIAP SE TF products, this Technical Report is a living document. The Block 1 WIPT encourages and depends upon active participation and feedback from members of the greater SIAP community.

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[2] The Block 1 Issues Technical Report discusses the processes used to identify the Block 1 Issues list.

# Bibliography

*Theater Air Missile Defense (TAMD) Capstone Requirements Document (CRD),* U.S. Joint Forces Command (Mar 01)

*Joint Tactical Air Operations (JTAO) Procedural Handbook,* Forces Command Fort McPherson, GA (Sep 00)

*IEEE Standard for Application and Management of the Systems Engineering Process,* IEEE Std 1220-1998

*System Engineering Master Plan V0.8Z-4A,* SIAP SE TF (2002)

*Block 1 Subject Matter Expert Statement of Work,* SIAP SE TF (Feb 02; Jun 02)

*Integrated Assessment Plan,* SIAP SE TF (Currently the IAP is in the final SIAP SE TF signature process)

# Appendix A: Acquisition Category (ACAT) Information Charts

**VERSION 1.1**

| Army Block 1 Systems | ACAT |
|---|---|
| A2C2S | III |
| Aerial Common Sensor | III |
| AFATDS | 1D |
| Apache | 1C |
| ATCCS | 1D |
| ATACMS | 1D |
| Avenger | IV |
| Bde TOC (AMDPCS) | III |
| Comanche | 1D |
| EAAD | Pre Major Program |
| FAAD C2 | 1C |
| FBCB2 | 1D |
| HIMARS | 1D |
| JLENS | II |
| JTAGS | III |
| Linebacker (Bradley Upgrade) | 1C |
| MLRS - Upgraded to GMLRS | 1D |
| PATRIOT | 1C |
| Sentinel | 1C |
| SLAMRAAM (EAAD Blk1) | I |
| Tactical UAV | II |
| TAIS | III |

| | |
|---|---|
| AEGIS 5.4 | 1C |
| AEGIS 7.2 | 1C |
| CDLMS v 3 and 4 | III |
| CEC (Cooperative Engagement Capability) | 1D |
| E-2C Group II | 1C |
| E-2C Hawkeye 2000 | 1C |
| F/A-18 C | 1C |
| F/A-18 D | 1C |
| F/A-18 E | 1C |
| F/A-18 F | 1C |
| JTIDS SICP | 1D |
| MIDS (Multifunctional Information Distribution System) | 1D |
| Ship Self Defense System (SSDS MK 2) | II |

| | |
|---|---|
| ADCP | IV |
| CAC2S | III |
| CLAWS | III |
| MSCS (TACC) | III |
| TAOC | II |
| TPS-59 | IV |

| Air Force Block 1 Systems | ACAT |
|---|---|
| Air Operations Center (AOC) | III |
| AWACS | 1C |
| F-15 A | 1D |
| F-15 B | 1D |
| F-15 C | 1D |
| F-15 D | 1D |
| F-16 Block 40/42 | 1D |
| F-16 Block 50/52 | 1D |
| MCE | II |
| RIVET JOINT | 1C |

|  |  |
|---|---|
| ABL (Airborne Laser) (As Part of BMDS) | 1D |
| MEADS (Medium Extended Air Defense System) (As Part of BMDS) | 1D |
| PAC 3 (Patriot Advanced Capabilities) | 1C |
| SBIRS (Satellite-based Infrared System) (As Part of BMDS) | 1C |
| SMDS (Sea-based Mid-course Defense System) | III |
| THAAD (Theater High Altitude Area Defense) (As Part of BMDS) | 1D |

# Appendix B: Service and Agency Feedback and Comment Resolution

**VERSION 1.1**

**Column 1 – ITEM**

Numeric order of comments based on an original sort by page number.

**Column 2 – SOURCE**

Organization and email address of reviewer.

**Column 3 – TYPE**

C – Critical
S – Substantive
A – Administrative

**Column 4 – PAGE**

**Column 5 – LINE**

Line number on the designated page that pertains to the comment, expressed in decimal form (i.e., line 1=1, line 4-5 = 4.5, line 45-67 = 45.67, etc.) For figures where there is no line number, use "F" with the figure number expressed in decimal form (i.e. figure II-2 as line number F2.02). For appendices, use the "F" and the appendix letter with the figure number (i.e appendix D, figure 13 as line number FD.13; appendix C, annex A, figure 7 as line number FCA.07)

**Column 6 – COMMENT**

Comment text in **line-in-line-out** format.

**Column 7 – RATIONALE**

Concise explanation of the rationale for the comment.

**Column 8 – DECISION**

Accept ("A"), reject ("R"), or accept with modification to the comment ("M").

**Column 9 – SIAP SE TF DISPOSITION**

US ARMY Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1 | Acquisition Roadmapping Branch SIAP SE TF | A | iii | 6 | Need to add a word or phrase to describe the type of process to be developed. | As is conjures the question, "what type of process is the SIAP SE TF developing"? | M | Re worded problem statement. |
| 2 | | S | iii | 5.11 | Reword the paragraph to state/describe what the problem is. | The problem isn't clearly stated. Currently undefined SIAP Architecture to determine what systems should be considered. | M | Re worded problem statement. |
| 3 | | S | iii | 13 | Rewrite the "Objectives" paragraph to clearly define the objectives. Highlight the fact that the process described here is an interim solution. | As it is currently written, the objectives aren't clearly defined. | A | |
| 4 | | S | iii | 25.28 | Revise the "Approach" paragraph to address/discuss the approach used to accomplish the objectives. | As it is currently written, the approach is vague and is not descriptive enough to understand the steps that will be taken in the system selection process. As written, the paragraph also makes the problem statement, objectives paragraph and approach paragraph appear to be disjointed. | M | Reworded. |

US ARMY Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| 5 | | S | iii | 30 | "Findings" paragraph should be revised | The "Findings" paragraph should address the following questions: 1.Was the process easily followed or difficult? 2.Are there other findings? 3.What lessons were learned as a result of completing this process? 4.Did you find anything that may be beneficial for the Architecture Branch? | R | The focus of this TR is the Candidate List itself. |
| 6 | | A | iv | 12 | In parentheses, add the acronym AMDPCS after the words "Bde TOC" | To facilitate the flow of a different term being used for AMDPCS in Block 0 to Block 1. | A | |
| 7 | | A | iv | 26 | Remove the words "meeting of the" after "March 2002". | Redundancy | A | |
| 8 | | S | iv | 29 | Should state the reasons that make the referred to list of systems a "compelling" group. | What is unique about this list that makes it "a more compelling grouping of Block 1 systems"? | M | Reworded for clarity. |
| 9 | | S | iv | 41 | Determine/use a more appropriate word to describe the type of approach used by the Block 1 WIPT than the word "reasonable". | Approach is not clearly defined, therefore it's difficult to assess the reasonableness of it. | M | Reworded. |

US ARMY Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 10 |  | S | V | 7.9 | Revise the paragraph to address what is being recommended. Suggest it address/recommend the system list that will be used for/to accomplish Block 1. | As it is currently written, the paragraph isn't/doesn't make a recommendation or recommend anything. | M | No recommendation offered. |
| 11 |  | A | 1 |  | Remove this page or annotate why it is blank. Also, add page numbers to the following pages. | Page is currently blank, so it doesn't contribute anything to the document. Page numbers needed on following pages to facilitate commenting. | A |  |
| 12 |  | A | 2 | 15 | Change criterion to criteria | The first sentence states the "Block 1 WIPT developed selection criteria…" | A |  |
| 13 |  | S | 3 | 9 | Make clear what the screening criteria pertains to and what "go/no-go" means in terms of the systems. | As it currently reads, the sentence doesn't seem to make clear its tie to the things stated in the previous paragraph. | A |  |
| 14 |  | A | 3 | 21 | Add the word "in" between the words "included" and "the". | Make the sentence complete. | A |  |
| 15 |  | A | 5 | 1 | Remove the words "AND JUSTIFICATION" from this title | Justification isn't addressed anywhere in the paragraph. | A |  |
| 16 |  | A | 6 | 20 | Determine consistent terms for equipment-in-the-loop and (HWIL). | "equipment-in-the-loop" is not consistent with (HWIL). | A |  |

UNCLASSIFIED

US ARMY Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| 17 | | S | 6 | 8<br><br>4 | 1. Add sentence "The SIAP SE TF Services/MDA and JTAMDO will jointly make recommendations based on performance/analysis data and the completion of the CBA."<br>2. Add: after (CBA) "based on families of systems (i.e. C2, sensors, and "shooters") | 1. Although it may be implied to some that the SIAP SE TF includes the virtual staff, it may be better received if these organizations were stated.<br>2. So there is no confusion and make it known that we are not doing a CBA on individual systems | A | |
| 17 | | A | 6 | 21 | What does the word "relevant" apply to? | As written/stated, text doesn't make clear what the word "relevant" applies to. | A | |
| 18 | | A | 7 | 5.6 | Replace the words "efficient and effective" with the words "cost efficient". | The words "cost efficient" better describes the situation. | A | |
| 19 | | S | 8 | | Review the ACAT designations for the Block 1 systems. | Noticed several differences in category designations from the list the ARB acquired from Service representatives. | A | Currently working updated info. |

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| n | Submitter's organization & email address | C, S, or A | n | n.n | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1. | | C | iii | | Executive Summary: rewrite to be a single paragraph summary not 2.5 pages. | Should be a summary of final outcome. | R | Editorial license. |

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Comments Current as of:

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 2. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 2.4 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 3. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 12 | Add (AMDPCS) on the same line and after Bde TOC | Completeness | A | |
| 4. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | v | 6.9 | Executive Summary: Delete "Recommendations" paragraph. | No recommendations are covered in Para only that this is a living document. | A | |
| 5. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | vi | | TOC: renumber sections sequentially in the TOC, change chapter 4 to "System Candidate Selection" | Clarity | A | |
| 6. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 1 | 1.18 | Introduction: Nothing is said about what the SIAP Blk 1 issues/themes areas are, only that they are JFCOM endorsed. Include listing of Theme/Issues being addressed. Include whether if these have been accepted/ endorsed as the main areas for investigation by the JROC? | Clarity, Definition of areas of investigation | R | To be addressed in separate TR. This TR is systems specific only. |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 7. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 5.6 | Introduction, 1st para: 2nd sentence, change to read "Ultimately the Block 1 WIPT will identify <u>root cause problems that impact block 1 issues in the candidate systems</u> and <u>make recommendations for</u> the most effective and efficient means (or fixes) to achieve <u>an improved SIAP capability</u> that satisfies JROC-validated warfighting requirements." | Clarity, we have to find root cause problems before we can come up with logical fixes to real problems. | R | Achieving a SIAP capability presupposes successful root-cause analysis. |
| 8. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 13.14 | Introduction, 2nd para: 2nd sentence replace "how the selection criterion was used to identify the SIAP Block 1 candidate systems" with "the resulting service list of applicable systems". | | A | |
| 9. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 2 | 28.29 | Change to read "The systems that generate <u>or consume</u> information that flows across the SIAP should be the primary focus. <u>Data consumers will establish requirements for SIAP information and may be required to implement/modify receipt and processing functionality.</u>" | 3.e on page 2 indicates that the candidate system may be a data consumer. | A | |

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|---|---|---|---|---|---|---|---|---|
| 10. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 2 | 29 | Delete "—all others should be secondary" | There is no description of what is meant by "secondary". | A | |
| 11. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 3 | 1.2 | Change to read "Be fielded and operational, or in the process of defining software requirements anytime during the Block 1 implementation time frame (FY05 – FY 12), but excluding systems leaving service prior to FY 12." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 12. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 3 | 3.4 | Change to read "Consider only those systems that are expected to be contributors or are in a critical stage of development during the focus time frame." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 13. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 1 | System Candidate Selection and Justification: Change to section #4 and delete "and Justification" from the chapter title | Format Correction. | A | |
| 14. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 2.3 | System Candidate Selection and Justification, 1st sentence: Change "service" to "service/agency, change "screening criteria" to "screening process". | Clarity | A | |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 15. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 5.7 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 16. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 4 | 15 | Add (AMDPCS) after Bde TOC | Completeness | A | |
| 17. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 1.2 | System Candidate Selection and Justification, last paragraph, rewrite as follows and move to last paragraph of chapter 3: "During the March 02 Block 1 WIPT, team members discussed the logic of adding particular TBMD systems to be fielded by the services but currently falling within the control of the Missile Defense Agency. The screening criteria was then applied to these TBMD systems to form a more complete set of systems which will contribute to improved SIAP across the full spectrum of Theater Missile Defense." | Is part of the process for selection. | A | |
| 18. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 5 | Block 1 Way Ahead: Change section #"2" to #"5". | Format Correction | A | |

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| 19. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7 | Block 1 Way Ahead, 1st para: 2nd sentence, change "analysis" to "analyses". | Clarity | A | |
| 20. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7.10 | Block 1 Way Ahead, 1st para: 3rd sentence, delete "as a starting point", change "equipment-in-the-loop" to "hardware-in-the-loop". | Unnecessary words and correction | A | |
| 21. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 14.15 | Block 1 Way Ahead, 2nd para: 2nd sentence, after "The analyses are expected to result in" add "root cause problems which will lead to". | Addition, adds root cause problem analysis for problem definition. | R | Root Cause is implied in the recommend-ation of engineering fixes. |
| 22. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 17.19 | Block 1 Way Ahead, 3rd para: 2nd sentence, after "with the requirements" add "and standards", change ""gaps" in the requirements." to ""gaps" in those requirements and/or standards." | Adds standards, problems may be with vagueness in standards. | A | |
| 23. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 5 | 7.8 | Change to read "Using this list as a starting point, the SIAP SE, in conjunction with the Services, will identify a subset of systems to be used in modeling and simulation, equipment-in-the-loop (HWIL), and Operator-in-the-Loop (OITL) analyses as well as in the Common Reference Scenario (CRS) vignettes. | This is a more correct representation of the process. | A | |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 24. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 6 | 1.2 | Block 1 Way Ahead, 4th para: 1st sentence, change "candidate for implementation of all the Block 1 improvements." to "candidate for implementation of all recommended Block 1 system fixes." | Not all fixes may need to be implemented in all systems. | A | |
| 25. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 6 | 2.4 | Change to read "The analyses conducted by the Analysis Branch (with support from the Services), using appropriate tools, will determine the improvement to the SIAP for each of the identified Block 1 improvements." | This is a more correct representation of the process. | A | |
| 26. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 6 | 7.9 | Block 1 Way Ahead, 4th para: last sentence, change ""for presentation to the Joint" to "for review and approval by the Joint" delete "for their approval" | Clarity | A | |
| 27. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | A-2 | | Appendix A, Candidate Block 1 System Tables: What data is required for the ORD block and how will we handle capability based requirements with MDA systems? | Clarity | R | Not Applicable |
| 28. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 3 | Delete the parenthetical expression "(Lower Tier Project)" | Army Lower Tier Project Office manages both PATRIOT and MEADS systems. | A | |

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|---|---|---|---|---|---|---|---|---|
| 29. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 7 | Change "SLAMRAM" to "SLAMRAAM" | Correctness. | A | |
| 30. | HQDA, G8, FDS | S | 4 | Table 1 | Recommend ATACM, HIMARS and MLRS be deleted from Block1 fixes | All SIAP information on these systems is provided to AFATDs. Therefore the systems should be removed from the list if it is not shown to be a direct contributor to the SIAP. AFATDs should be the only Block 1 system in this Army category. | R | SIAP is merely the care taker of the list. Services are responsible for their own representatives |
| 31. | HQDA, G8, FDS | A | A-2 | Chart | Change HIMARS to ACAT 1D | On 16 May 02 the DAE designated HIMARS to 1D | A | |
| 32. | HQDA, G8, FDS | S | A-2 | Chart | Recommend ATACM, HIMARS and MLRS be deleted from Block1 fixes | All SIAP information on these systems is provided to AFATDs. Therefore the systems should be removed from the list if it is not shown to be a direct contributor to the SIAP. AFATDs should be the only Block 1 system in this Army category. | R | SIAP is merely the care taker of the list. Services are responsible for their own representatives |

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| n | Submitter's organization & email address | C, S, or A | n | n.n | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 1. | | C | iii | | Executive Summary: rewrite to be a single paragraph summary not 2.5 pages. | Should be a summary of final outcome. | R | Author's Choice |
| 2. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 2.4 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 3. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 12 | Add (AMDPCS) on the same line and after Bde TOC | Completeness | A | |
| 4. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | v | 6.9 | Executive Summary: Delete "Recommendations" paragraph. | No recommendations are covered in Para only that this is a living document. | A | Will rewrite recommend-ations paragraph |
| 5. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | vi | | TOC: renumber sections sequentially in the TOC, change chapter 4 to "System Candidate Selection" | Clarity | A | |
| 6. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 1 | 1.18 | Introduction: Nothing is said about what the SIAP Blk 1 issues/themes areas are, only that they are JFCOM endorsed. Include listing of Theme/Issues being addressed. Include whether if these have been accepted/ endorsed as the main areas for investigation by the JROC? | Clarity, Definition of areas of investigation | M | Refer to Block 1 Issues TR in a footnote. |

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| 7. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 5.6 | Introduction, 1st para: 2nd sentence, change to read "Ultimately the Block 1 WIPT will identify root cause problems that impact block 1 issues in the candidate systems and make recommendations for the most effective and efficient means (or fixes) to achieve an improved SIAP capability that satisfies JROC-validated warfighting requirements." | Clarity, we have to find root cause problems before we can come up with logical fixes to real problems. | M | Accepted with minor edit. |
| 8. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 13.14 | Introduction, 2nd para: 2nd sentence replace "how the selection criterion was used to identify the SIAP Block 1 candidate systems" with "the resulting service list of applicable systems". | | A | |
| 9. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 2 | 28.29 | Change to read "The systems that generate or consume information that flows across the SIAP should be the primary focus. Data consumers will establish requirements for SIAP information and may be required to implement/modify receipt and processing functionality." | 3.e on page 2 indicates that the candidate system may be a data consumer. | A | |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 10. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 2 | 29 | Delete "—all others should be secondary" | There is no description of what is meant by "secondary". | A | |
| 11. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 3 | 1.2 | Change to read "Be fielded and operational, or in the process of defining software requirements anytime during the Block 1 implementation time frame (FY05 – FY 12), but excluding systems leaving service prior to FY 12." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 12. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 3 | 3.4 | Change to read "Consider only those systems that are expected to be contributors or are in a critical stage of development during the focus time frame." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 13. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 1 | System Candidate Selection and Justification: Change to section #4 and delete "and Justification" from the chapter title | Format Correction. | A | |
| 14. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 2.3 | System Candidate Selection and Justification, 1st sentence: Change "service" to "service/agency, change "screening criteria" to "screening process". | Clarity | A | |

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| 15. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 5.7 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 16. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 4 | 15 | Add (AMDPCS) after Bde TOC | Completeness | A | |
| 17. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 1.2 | System Candidate Selection and Justification, last paragraph, rewrite as follows and move to last paragraph of chapter 3: "During the March 02 Block 1 WIPT, team members discussed the logic of adding particular TBMD systems to be fielded by the services but currently falling within the control of the Missile Defense Agency. The screening criteria was then applied to these TBMD systems to form a more complete set of systems which will contribute to improved SIAP across the full spectrum of Theater Missile Defense." | Is part of the process for selection. | A | |
| 18. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 5 | Block 1 Way Ahead: Change section #"2" to #"5". | Format Correction | A | |

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| 19. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7 | Block 1 Way Ahead, 1st para: 2nd sentence, change "analysis" to "analyses". | Clarity | A | |
| 20. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7.10 | Block 1 Way Ahead, 1st para: 3rd sentence, delete "as a starting point", change "equipment-in-the-loop" to "hardware-in-the-loop". | Unnecessary words and correction | A | |
| 21. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 14.15 | Block 1 Way Ahead, 2nd para: 2nd sentence, after "The analyses are expected to result in" add "root cause problems which will lead to". | Addition, adds root cause problem analysis for problem definition. | A | |
| 22. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 17.19 | Block 1 Way Ahead, 3rd para: 2nd sentence, after "with the requirements" add "and standards", change ""gaps" in the requirements." to ""gaps" in those requirements and/or standards." | Adds standards, problems may be with vagueness in standards. | A | |
| 23. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 5 | 7.8 | Change to read "Using this list as a starting point, the SIAP SE, in conjunction with the Services, will identify a subset of systems to be used in modeling and simulation, equipment-in-the-loop (HWIL), and Operator-in-the-Loop (OITL) analyses as well as in the Common Reference Scenario (CRS) vignettes. | This is a more correct representation of the process. | A | |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 24. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 6 | 1.2 | Block 1 Way Ahead, 4th para: 1st sentence, change "candidate for implementation of all the Block 1 improvements." to "candidate for implementation of all recommended Block 1 system fixes." | Not all fixes may need to be implemented in all systems. | A | |
| 25. | Army SIAP Block 1 Engineering Team , U.S. Army PEO AMD Huntsville, AL | S | 6 | 2.4 | Change to read "The analyses conducted by the Analysis Branch (with support from the Services), using appropriate tools, will determine the improvement to the SIAP for each of the identified Block 1 improvements." | This is a more correct representation of the process. | A | |
| 26. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 6 | 7.9 | Block 1 Way Ahead, 4th para: last sentence, change ""for presentation to the Joint" to "for review and approval by the Joint" delete "for their approval" | Clarity | A | |
| 27. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | A-2 | | Appendix A, Candidate Block 1 System Tables: What data is required for the ORD block and how will we handle capability based requirements with MDA systems? | Clarity | M | Deleted the ORD column for this TR; ORD info will be added at a later date. Info needed: Ord Title, ORD #/Version, ORD Date. |
| 28. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 3 | Delete the parenthetical expression "(Lower Tier Project)" | Army Lower Tier Project Office manages both PATRIOT and MEADS systems. | A | |

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| 29. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 7 | Change "SLAMRAM" to "SLAMRAAM" | Correctness. | A | |

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|---|---|---|---|---|---|---|---|---|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1 | NSWCDD T21, finleydc@nswc.navy.mil | A | various | | There are numerous undefined acronyms used throughout this document, especially in Appendix A and Tables 1 & 2, not individually called out in these comments. | First use of an acronym or abbreviation should include a definition to reduce confusion. For example, MCE on page A-4 has at least 3 *relevant* meanings: Maneuver Commander's Environment, Modular Control Equipment and Mission Control Element. Alternatively, provide a complete acronym list as an attachment. | A | |
| 2 | NSWCDD T21, RodriguezH @nswc.navy.mil | A | 2 | Line 14 | Reword the first line of the third paragraph of section 3 to read, "The WIPT agreed upon and followed the selection criteria outlined below." | Clarity. | A | |
| 3 | NSWCDD T21, RodriguezH @nswc.navy.mil | A | 3 | Lines 7,8 | Reword lines 7 and 8 to read, "After applying the above criteria systems that provided only marginal contribution were screened out." Get rid of the "common sense" filter reference. | Clarity. | M | Re worded to delete the words "common sense". |

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| 4 | NSWCDD T21, finleydc@nswc.navy.mil | A | 4, A-2 | F1, FA | There are numerous erroneous acronyms which should be corrected. For example, SLAMRAM is spelled two different ways, and is wrongly defined on page A-2 (it is probably not really a surface launched air-to-air missile). TAIS and EAAD are incorrectly defined. (Tactical Airspace Integration System and Enhanced Area Air Defense, respectively.) | Erroneous definitions and nomenclature can lead to confusion on the part of the reader. | A | |
| 5 | NSWCDD T21, finleydc@nswc.navy.mil | A | 4, A-2 | F1, F-A | SLAAMRAAM listed here and on page A-2 (as SLAMRAM) appears to violate the selection rule in paragraph 3.d, which says candidate systems may NOT be a weapon. If true, it should be removed from the candidate list. | Note that the listing for SLAMRAM on page A-2 identifies it as EAAD Block 1. However, EAAD is listed separately, so this may be a redundant listing anyway. | R | Army input included SLAMRAAM. SIAP SE TF is merely the care taker of the list, Services decide for their own systems' representation on the list. |
| 6 | NSWCDD T21, RodriguezH @nswc.navy.mil | A | 5 | Line 4, Para grap h 2 | Replace the word "equipment" with the word "hardware" | Acronym HWIL should be Hardware-in-the-Loop (HWIL). | A | |

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| n | Submitter's organization & email address | C, S, or A | n | n.n | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 1 | NAVSEA DD/PCI; rking@pci-dahl.com | S | iii | | Problem statement is unclear in stating what the process is that should be iteratively appied. | The process to develop a candidate list of systems appears to be separate the from the process to iteratively apply across all candidate systems. The actual problem statement seems to be missing. | A | |
| 2 | NAVSEA DD/PCI; rking@pci-dahl.com | A | iii | | Subject and verb do not agree in first sentence under OBJECTIVES. | Subject/verb agreement | A | |
| 3 | NAVSEA DD/PCI; rking@pci-dahl.com | S | iv | | It is surprising to see CEC under Navy systems. | Heretofore, Block 1 has been stated as limitations in various categories to the TADIL J/Link 16/JDN and associated messages. CEC is most closely associated with JCTN, and would be out of scope unless the focus of Block 1 has been expanded. (This might be appropriate considering EOR, where CEC may be a better solution than a TADIL.) | R | The Navy's input was to have CEC on the list. SIAP SE TF is merely the care taker of the list and the services provide their own representatives for the list. Only the Service can change their input,, not the SIAP SE TF. Regarding CEC and JDN, please refer to Director, JTAMDO memo dtd 2 January 2002. JCTN will be treated as an element of the multi TADIL network. |

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| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| 4 | NAVSEA DD/PCI; rking@pci-dahl.com | A | Iv, 5 | | Delete "more compelling" in last paragraph. | What makes the MDA listing "more compelling" has not been established. These systems are in addition to the candidate systems, not a replacement listing. | A | |
| 5 | NAVSEA DD/PCI; rking@pci-dahl.com | S | iv | | It is surprising to see SBIRS listed in the MDA table. | Heretofore, Block 1 has been stated as limitations in various categories to the TADIL J/Link 16/JDN and associated messages. SBIRS is not a known TADIL participating unit. Has the focus of Block 1 expanded beyond the TADIL? | R | SIAP SE TF is merely the caretaker of the list and the services provide their own representatives for the list. Only the Service can change their input,, not the SIAP SE TF. Regarding CEC and JDN, please refer to Director, JTAMDO memo dtd 2 January 2002. JCTN will be treated as an element of the multi TADIL network. |

US NAVY Comment Resolution Matrix -- Document Title
Comments Current as of:

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 6 | NSWCDD/PCI: CPOORE@PCI-DAHL.COM | A | V | | The RECOMMENDA-TION does not constitute a recommendation. Although the thought deserves to be noted the recommendation should be on the order of: Recommend that the identified systems should be approved – or words to that effect. | | A | |
| 7 | NSWCDD/PCI: CPOORE@PCI-DAHL.COM | S | 1 | 1$^{st}$ para. | The INTRODUCTION implies that Block 1 is considering fixes and enhancements to the SIAP from JDN, JCTN and JPN circuits – all contributors to the integrated picture. It is the Navy's understanding that Block 1 is focused on the JTIDS component of the JDN only. This is supported by the fact that work in other areas have been JTIDS oriented. Metrics, as an example need to be reevaluated in terms of JPN and JCTN completeness. Also, as noted in the SIAP IAP: "Block 1 includes a prioritized subset of JDN deficiencies that can be corrected..." | Request that this section provide an explicit definition of the Block 1 effort in terms of applicable circuits and their relationship in terms of efforts to improve the SIAP. | R | Regarding CEC and JDN, please refer to Director, JTAMDO memo dtd 2 January 2002. JCTN will be treated as an element of the multi TADIL network. |

US NAVY Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 8 | NSWCDD/P CI: CPOORE@P CI-DAHL.COM | S | 4 | Table 1 | Recommend add Shipboard Gridlock System (SGS) as a Navy system. Why is JTIDS/MIDS exclusive to the Navy? Also, the JTIDS comprises two major elements of the SICP and the NICP. Has it be determined that changes to the NICP may not be required? | | M | SIAP SE TF is merely the care taker of the list and the services provide their own representatives for the list. Only the Service can change their input,, not the SIAP SE TF. DASN(TCS) is the Navy lead for this issue. No, it has not been determined that changes to the NICP may not be required. |

US MARINE CORPS Comment Resolution Matrix -- Document Title
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| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1 | Whitney, Bradley & Brown Inc. ISO SIAP SE TF vfrederick @wbbinc.com | S | iii | 3rd | Problem statement is focused on individual system and platforms when the system engineering should focus on the network, family-of-systems or system-of-systems. Replace "all facets of a **system's**" to "FoS or SoS" | The executive summary problem statement focus remains platform centric vice network centric treating the SIAP creation and maintenance as a "Joint" problem. | A | |
| 2 | " | A | iii | 12th | The IADS acronym is used yet spelled out as "Joint Integrated Air Defense System" aka JIADS | Accuracy | A | |
| 3 | " | A | vi | 4th & 5th | Correct the Table of Contents numbering sequence | Correct format | A | |
| 4 | " | S | vi | 7th | Add Appendix B for acronyms | There are too many Service specific and Joint acronyms for the average reader to know all of them in order to make and informed decision. | A | |
| 5 | " | S | vi | 8th | Add Appendix C with definitions or glossary of terms | The reviewer cannot make an informed decision without knowing what each system's | R | Glossary of terms will be hosted in the architecture (AV-2) |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| | | | | | | capability impacts upon the SIAP. | | |
| 6 | " | A | 1 | 16 | Same as item 2 | | A | |
| 7 | " | S | 4 | Table 1 | SIAP SE TF should provide a format for the Services to list their systems in an intuitive format that shows how they comply with the criteria listed on page 2 and 3. Example: Patriot ICC: a, b, c, d, e, f. In addition, each Service should define which version of HW and SW this will apply. Again using Patriot as an example PDB 4, PDB 5, PDB 6 or PDB 7? Other systems such as E-2C or AEGIS specify the exact block and/or version. | Consistency of information. | R | For this version. Will be incorporated into Block 2 List. |
| 8 | " | S | 4 | Table 1 | Delete Apache or review selection criteria. | What is the value added to the Block 1 SIAP effort? It is on the TAMD CRD list, it is a tactical system, it operates within Joint Air Operations, it acts as a weapon system platform, it does not produce, translate or forward any Link-16 related tracks. It is a data consumer and it will be | R | SIAP is merely the care taker of the list. The services provide their own represent-atives for the Block 1 list. |

US MARINE CORPS Comment Resolution Matrix -- Document Title
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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| | | | | | | fielded within the Block 1 timeframe. However, it provides minimum value to the generation and maintenance of the SIAP. | | |
| 9 | " | C | 4 | 5, 12 & 24 | Delete HIMARS along with MLRS and ATACMS. | All three are weapons system that will use the SIAP information but not add or edit any information. | R | SIAP is merely the care taker of the list.\n\nThe services provide their own represent-atives for the Block 1 list. |
| 10 | " | C | 4 | 7 | Delete SLAAMRAAM. | It is a weapon system that is a user of the SIAP. It does not appear to be a contributor. | R | SIAP is merely the care taker of the list.\n\nThe services provide their own represent-atives for the Block 1 list. |
| 11 | " | C | 4 | 8 | Delete AFATDS or establish a separate category for application integration/ interoperability. What is the logic for inclusion? Is it air space deconfliction with TBMCS or live-air activities? | AFATDS capability does not enable the generation of maintenance of the SIAP. It's output might enable planning with air space deconfliction and the establishment of routes and corridors. | R | SIAP is merely the care taker of the list.\n\nThe services provide their own represent-atives for the Block 1 list. |
| 12 | " | C | 4 | 10 | Delete Comanche. | Planned SIAP user, not a contributor. | R | SIAP is merely the care taker of the list. The services provide their own rep. for the Block 1 list. |

US MARINE CORPS Comment Resolution Matrix -- Document Title
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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 13 | " | S | 4 | 11 + | Insufficient information to evaluate Bde TOC (AMDPCS), EAAD, JTAGS (M3P), FAAD C2, A2C2S, ATCCS, Sentinel, FBCB2, & Aerial Common Sensor | Clarify for staffing. | R | SIAP is merely the care taker of the list. The services provide their own represent- atives for the Block 1 list. |
| 14 | " | C | 4 | 20, 22 | Delete Avenger and Bradley "Linebacker". | Both are SHORAD weapon systems and SIAP users. BCIS PLI information would be of value for FID. | R | SIAP is merely the care taker of the list. The services provide their own represent- atives for the Block 1 list. |
| 15 | " | C | 4 | 1 | Add AEGIS B/L 6.3 | A fielded variant used in the JCIET 02 SIAP with the Anzio and CSG | R | SIAP is merely the care taker of the list. The services provide their own represent- atives for the Block 1 list. |
| 16 | " | C | 4 | 5 | Specify CEC version of software and group of hardware as with other contributors configurations to the SIAP | Clarification and accuracy. | R | SIAP is merely the care taker of the list. The services provide their own represent- atives for the Block 1 list. |
| 17 | " | C | 4 | 6 | Specify MIDS variations of software and hardware as with other contributors configurations to the SIAP | Clarification and accuracy. | R | SIAP is merely the care taker of the list. The services provide their own represent- atives for the Block 1 list. |
| 18 | " | C | 4 | 7 | Specify JTIDS variations of software and hardware as with other | Clarification and accuracy. | R | Will be addressed in the next WIPT. |

US MARINE CORPS Comment Resolution Matrix -- Document Title
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| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
|  |  |  |  |  | contributors configurations to the SIAP |  |  |  |
| 19 | " | C | 4 | 20 | Add ACDS. | L-Class amphibious ships as the LHA's contribute and utilize the SIAP through ACDS | R | SIAP is merely the care taker of the list. The services provide their own reps. for the Block 1 list. |
| 20 | " | S | 4 | 2, 3 | Determine the cost of improving warfighting value/capabili-ties in the systems with a planned phase out i.e. TAOM(V)4 and ADCP | CAC2S planned fielding of capabilities should replace the TAOM and ADCP. | R | Not in the purview of this TR. |
| 21 | " | C | 4 | TBD | Add Mulit-Role Radar System (MRRS). | The MRRS is the Marine Corps planned replacement for the TPS-73 (ATC), TPS-63 (EWC) and MPQ-64 (SHORAD) radar. | R | SIAP is merely the care taker of the list. The services provide their own reps. for the Block 1 list. |
| 22 | " | S | 4 | TBD | Consider adding MATCALS and ASPARCS if they have a requirement to provide their surveillance picture to the SIAP. | During JCIET 02 the MATCALS TPS-73 was contributing tracks to the data link network. | R | SIAP is merely the care taker of the list. The services provide their own reps for the Block 1 list. |
| 23 | " | S | 4 | 1 | Identify which version of AWACS will impact the Block 1 efforts. Blk 30/35 and/or Blk 40/45 | Clarification and accuracy. | R | SIAP is merely the care taker of the list. The services provide their own reps for the Block 1 list. |
| 24 | " | S | 4 | TBD | Consider adding TBMCS under the same category as | Ensure comprehensive coverage of air operation tasks | R | SIAP is merely the care taker of the list. The services |

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Comments Current as of:

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| | | | | | AFATDS for SW applications that impact air space planning and operations | to generate and maintain the SIAP through ACO and ATO | | provide their own reps for the Block 1 list. |
| 25 | " | S | 4 | TBD | Consider adding ADSI. | Most theaters use versions of ADSI within the SIAP architecture, thus it is relevant to current and future air operations | R | SIAP is merely the care taker of the list. The services provide their own reps for the Block 1 list. |
| 26 | " | S | 4 | TBD | Consider adding F-22. | Thus airframe and its capabilities might fall within the selection criteria. | R | SIAP is merely the care taker of the list. The services provide their own reps for the Block 1 list. |
| 27 | " | A | A-2 | | What is the significance of providing the ACAT designation? A more useful set of data might have each Service indicate where the nominated system is within it's lifecycle. Example; MS A, MS B, MS C, etc. In addition, Services could note whether it is fully documented and funded program or its status. | Provide the SIAP, Services and JROC a snapshot of key information to make an informed review. | R | It is provided for reference use only. |

AIR FORCE Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1 | AFC2ISRC/A-63 | S | iv | USN Col | Delete CEC, MIDS, and JTIDS SICP | Accuracy & Correctness – CEC, MIDS, and JTIDS SICP do meet/satisfy all the criteria stated as selection parameters. CEC is a capability (by definition), not a system, and does not originate Link/tactical data in a standalone configuration. MIDS is a terminal, not a system, and is incapable of originating Link/tactical data in a standalone configuration. JTIDS SICP is a terminal-to-host interface program, not a system, and is incapable of originating Link/tactical data in a standalone configuration. | R | The Navy's input was to have CEC on the list. SIAP SE TF is merely the care taker of the list and the services provide their own reps-tives for the list. Only the Service can change their input,, not the SIAP SE TF. Regarding CEC and JDN, please refer to Director, JTAMDO memo dtd 2 January 2002. JCTN will be treated as an element of the multi TADIL network. |

AIR FORCE Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 2 | AFC2ISRC/A -63 | S | 4 | Para 1, USN Col | Same as Comment #1 | Same as Comment #1 | R | The Navy's input was to have CEC on the list. SIAP SE TF is merely the care taker of the list and the services provide their own reps for the list. Only the Service can change their input,, not the SIAP SE TF. Regarding CEC and JDN, please refer to Director, JTAMDO memo dtd 2 January 2002. JCTN will be treated as an element of the multi TADIL network. |

AIR FORCE Comment Resolution Matrix -- Document Title
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| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 3 | AFC2ISRC/A -63 | S | APP A | | Delete Appendix | Correctness & Clarity -- There is no reference or rationale provided in the body of the TR to warrant inclusion of Systems ACAT data.  The Appendix adds no technical, operational, analytical information to the to the TR.  To the contrary, including the appendix can be interpreted as having a significance that is not stated, referenced, or addressed anywhere within the TR, arguably resulting in confusion and misinterpretation. If not deleted, then include a section within the TR explaining the reason for inclusion and the utility and justification for the information, relative to "Block 1 Candidate System selection". | M | Rational for inclusion provided in Way Ahead. |

MDA Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 1 | MDA | | .Page iii Para 1 | | The first sentence says that a process needs to be developed without stating a purpose for the process. The second sentence describes issues beyond the selection criteria that is the purpose of the report | Rewrite the problem statement to match the report. --- A | A | |
| 2 | MDA | | Page iv Para 1 | | The second "meeting" in the first sentence is not needed. | Delete the second "meeting" in the first sentence --- A | A | |
| 3 | MDA | | Page iv Para 1 | | The point of this paragraph is not clear. Why is a discussion of the logic of systems falling under MDA significant? The grouping in the lower is described as more compelling. It is not clear what it is being compared to. | Rewrite the paragraph to make the point it wants to make --- A | A | |
| 4 | MDA | | Page v Para 2 | | There is no recommendation under the "RECOMMENDATIONS" paragraph | State the recommendations from the WIPT. --- A | A | |
| 5 | MDA | | Page 1 Para 2 | | The term "criteria" is used in the first sentence. The word "criterion" is used in the second sentence. Both appear to refer to a list of criteria for selecting candidate system. The plural version, "criteria", seems to be appropriate in both places. | Change "criterion" to "criteria". --- A | A | |

MDA Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| 6 | MDA | | Page 1 2nd Bullet | | Incorrect usage of "principle" | Proper usage is "principal". — R. "Principle" is an adjective describing the type of advisor. "Principal" is a noun. | A | |
| 7 | MDA | | Page 4 | | Add ABL, PAC-3 and TPS 75 to list of candidate systems | Add ABL, PAC-3 and TPS 75. --- Accept. Table Amended.. | A | |
| 8 | MDA | | Page 5 Para 1 | | The way this is stated it sounds like the MDA system (elements) were chosen without going through the screening criteria. I believe they meet the criteria and the MDA representative on the team should have ensure MDA elements are considered along with other Service systems | Don't make the special distinction for MDA elements. --- A | A | |
| 9 | MDA | | Pages A-2, A-4 | | The appendix provides ACAT designations for Patriot, MEADS, THAAD, and ABL. These programs are not ACAT MDAPs. | There is only one Missile Defense MDAP : the BMDS. The programs referred to are BMDS elements. --- A | A | |
| 10 | MDA | | A-4 | | "SMDS" is the Sea-Based Mid Course Defense System element; not the "Switch Multi-Megabit Data Service: | Change. --- A | A | |

MDA Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 11 | MDA | | Page iii Para 1 | | The first sentence says that a process needs to be developed without stating a purpose for the process. The second sentence describes issues beyond the selection criteria that is the purpose of the report | Rewrite the problem statement to match the report. --- A | A | |

SIAP SE TF Internal Feedback Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1 | Spitser | S | iii | | Problem: <br>- change "iteratively apply across all" to "select" <br>- Change the beginning of the second sentence from "Because…require identification" to "The candidate systems list will be used to support identification" | Improve description of problem | M | Reworded Problem Statement |
| 2 | | S | iv | | Service table: <br>- Where are the joint systems (JSF, etc)? <br>- Put the table in the same order as the systems in appendix A. <br>- Why is "FY06" after "RMP" in the E-2C section? <br>- Fix border shading; center column titles <br>- Delete discussion before MDA table <br>- Add discussion of Service formal approval of candidate systems list | Improve presentation Delete extraneous material from Exec Summ | R<br><br><br>A<br><br>R | SIAP SE TF is merely the caretaker of the systems list. The services are responsible for providing their own representatives for Block 1. Edited as required. Addressed Separately. |

SIAP SE TF Internal Feedback Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 3 | | S | v | | Change <u>Conclusion</u> to: "The Block 1 WIPT developed selection criteria for the Block 1 Candidate Systems that allowed the Services to develop an initial list. This list, which represents a cross-section of the JIADS systems, is sufficient for the Block 1 team to meet their systems engineering objectives." Change <u>Recommendations</u> to: "Services and Agencies should provide the Task Force with comments and recommendations for improving the Block Candidate Systems Selection Process. The Block 2 WIPT should tailor this process, based on the feedback, for use in selecting Block 2 Candidate Systems." | Improve wording | A | Modified as noted. |
| 4 | | A | vi | | Paragraph numbering is wrong. | | A | |

SIAP SE TF Internal Feedback Comment Resolution Matrix -- Document Title
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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 5 | | S | 1 | | Introduction:<br>- Reference the Block 1 SME SOW at the beginning of the second paragraph (after "initial tasks"). Include a section for references at the end of the document<br>WIPT Structure:<br>- Change USCINCJFCOM to USJFCOM<br>- Add "Rep" after SAT and ART (for consistency) | | A | |
| 6 | | S | 2 | | - Add the reference info for the TAMD CRD to the reference section (described above)<br>- Move the second paragraph to page 3 after subparagraph f | - Discuss the use of the criteria after you list the criteria | A | |
| 7 | | S | 4 | | - Same comments on table as above<br>- After the table, add a line referring to the acronym definitions and program ACAT levels in Appendix A | - Have to reference an appendix in the main text | A | |

SIAP SE TF Internal Feedback Comment Resolution Matrix -- Document Title
Comments Current as of:

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 8 | | S | 5 | | - In the first paragraph, change the second sentence to read: "Though procurement authority for MDA-developed systems resides within the parent service, the systems currently under development by MDA were listed under MDA for the Block 1 Candidate Systems List." <br> - After the MDA table, add discussion of Service formal approval of candidate systems list <br> **1. Block 1 Way Ahead** <br> - Delete the first sentence <br> - Switch wording to "Candidate Block 1 Systems List" (for consistency) <br> - Stop the third sentence after "analyses"; delete the rest; add a fourth sentence "The Common Reference Scenarios will be updated to reflect that subset of the overall list <br> - Make the sentence describing the separate TR for Blk 1 issues a footnote; add the note after the first sentence in that paragraph (after "issues") <br> - Add the reference material for the SEMP to the references section in the back <br> - Make the sentence describing the separate TR for analysis a footnote; add the note after the previous sentence | | A | Edited as required |

SIAP SE TF Internal Feedback Comment Resolution Matrix -- Document Title
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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 9 | | S | 6 | | - In the fifth line of the first paragraph, change "systems and systems fixes provide" to "systems the fixes should be implemented in to provide". <br> - In the seventh line, delete the rest of the sentence after "Branch," <br> - Delete the second paragraph <br> - Add Conclusions and Recommendations paragraphs, with at least the same wording I provided above (with additions if desired) | | A | |
| 10 | | S | A-2:4 | | - Delete the ORDs is it isn't going to be used <br> - Spell out all acronyms | | R | Required by SIAP SE TF leadership. |

SIAP Acquisition Executive Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 1. |  | S | Overall |  | From the SIAP AE perspective the value of this document lies in the opportunity to clarify which systems are impacted by Block 1 fixes. |  | A | Subj para re-written |
| 2. |  | C | iii |  | DELETE: "perform system trade off analysis, verify system performance and system capability, and within the framework....to the end of the sentence. | Not a mission of the SIAP SE TF | A |  |

SIAP Acquisition Executive Comment Resolution Matrix -- Document Title
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|---|---|---|---|---|---|---|---|---|
| 3. | SIAP AE | C | System Matrix iv | | CHANGE system matrix for the Army to the following systems. This list will be modified in the future. **Weapon Systems:** Patriot ICC/BCP Commanche Apache MLRS HIMARS SLAMRAAM Avenger Linebacker **C2 Systems:** ABCS: -AFATDS -AMDPCS -ASAS TAIS FBCB2 FAAD C2 A2C2S **Sensors:** JLENS JTAGS (M3P) Sentinel Aerial Common Sensor Tactical UAV **C2 Systems:** ABCS: AFATDS AMDPCS ASAS TAIS FBCB2 FAAD C2 A2C2S | Clarity and correctness ATACMS is a missile round, MEADS is an MDA system, Bde TOC is not a system, EAAD is not a system and ATCCS does not exist | M | Edited accordingly Updates expected. SIAP is merely the caretaker of the list. Services are responsible for providing Block 1 candidates. |
| 4. | SIAP AE | C | iv MDA Syst. | | ADD: MEADS and PAC3 to the MDA list. | Correctness | A | |
| 5. | SIAP AE | | 2 | 2nd Para | CHANGE: TBMD and TBM to BMD and BM respectively. | Correctness, no longer Tactical or Theater | A | |
| 6. | SIAP AE | C | 3 | 1st Sent | CHANGE: Block 1 implementation time frame to FY05-10 | Objective SIAP due in 2010 DPG states interoperability in 2008 | A | |

SIAP Acquisition Executive Comment Resolution Matrix -- Document Title
Comments Current as of:

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 7. | SIAP AE | C | 4 | System Matrix | CHANGE: Per above | Correctness | A | |
| 8. | SIAP AE | C | 5 | MDA Matrix | CHANGE: Per above | Correctness | A | |
| 9. | SIAP AE | | 6 | 1$^{st}$ para | DELETE: Sentence 3&4 | A CBA will not be able to be conducted by the SIAP SE TF since they do not control Service system engineering or implementation dollars. SIAP SE TF will provide the recommended fix and the Service will decide the CBA. | A | |
| 10. | SIAP AE | | 6 | 1$^{st}$ para | DELETE: Sentence 5 | The JROC validates requirements and does not approve the implementation plan. The SIAP AE will approve plans. | A | |
| 11. | SIAP AE | | | App. A | CHANGE: Per systems listed above. For both Army and MDA, change per above. Change Patriot to ACAT IC per USD(ATL) direction. | Correctness | A | |

JTAMDO Agency Comment Resolution Matrix -- Document Title
Comments Current as of:

| ITEM | SOURCE | TYPE | PAGE | LINE | COMMENT | RATIONALE | A/R/M | SIAP SE TF DISPOSITION |
|---|---|---|---|---|---|---|---|---|
| *n* | Submitter's organization & email address | C, S, or A | *n* | *n.n* | Comment text in line-in-line out format | Concise explanation for comment | SIAP use | SIAP use |
| 1. | | C | iii | | Executive Summary: rewrite to be a single paragraph summary not 2.5 pages. | Should be a summary of final outcome. | R | Editorial license. |
| 2. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 2.4 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 3. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | iv | 12 | Add (AMDPCS) on the same line and after Bde TOC | Completeness | A | |
| 4. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | v | 6.9 | Executive Summary: Delete "Recommendations" paragraph. | No recommendations are covered in Para only that this is a living document. | A | |
| 5. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | vi | | TOC: renumber sections sequentially in the TOC, change chapter 4 to "System Candidate Selection" | Clarity | A | |

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|------|--------|------|------|------|---------|-----------|-------|------------------------|
| 6. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 1 | 1.18 | Introduction: Nothing is said about what the SIAP Blk 1 issues/themes areas are, only that they are JFCOM endorsed. Include listing of Theme/Issues being addressed. Include whether if these have been accepted/ endorsed as the main areas for investigation by the JROC? | Clarity, Definition of areas of investigation | R | To be addressed in separate TR. This TR is systems specific only. |
| 7. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 5.6 | Introduction, 1st para: 2nd sentence, change to read "Ultimately the Block 1 WIPT will identify <u>root cause problems that impact block 1 issues in the candidate systems</u> and <u>make recommendations for</u> the most effective and efficient means (or fixes) to achieve <u>an improved SIAP capability</u> that satisfies JROC-validated warfighting requirements." | Clarity, we have to find root cause problems before we can come up with logical fixes to real problems. | R | Action Required |

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| 8. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 1 | 13.14 | Introduction, 2nd para: 2nd sentence replace "how the selection criterion was used to identify the SIAP Block 1 candidate systems" with "the resulting service list of applicable systems". | | A | |
| 9. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 2 | 28.29 | Change to read "The systems that generate or consume information that flows across the SIAP should be the primary focus. Data consumers will establish requirements for SIAP information and may be required to implement/modify receipt and processing functionality." | 3.e on page 2 indicates that the candidate system may be a data consumer. | A | |
| 10. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 2 | 29 | Delete "—all others should be secondary" | There is no description of what is meant by "secondary". | A | |

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| 11. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | C | 3 | 1.2 | Change to read "Be fielded and operational, or in the process of defining software requirements anytime during the Block 1 implementation time frame (FY05 – FY 12), but excluding systems leaving service prior to FY 12." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 12. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 3 | 3.4 | Change to read "Consider only those systems that are expected to be contributors or are in a critical stage of development during the focus time frame." | Systems must have an understanding of SIAP requirements in order to ensure that, when fielded, the system implementation will be in sync with SIAP objectives. | A | |
| 13. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 1 | System Candidate Selection and Justification: Change to section #4 and delete "and Justification" from the chapter title | Format Correction. | A | |
| 14. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 2.3 | System Candidate Selection and Justification, 1st sentence: Change "service" to "service/agency, change "screening criteria" to "screening process". | Clarity | A | |

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| 15. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 4 | 5.7 | Change "PATRIOT ICC" to read "Patriot" and Delete the line "Patriot BCP". | Not clear at this time that it is necessary to decompose the Patriot system to its components | A | |
| 16. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | 4 | 15 | Add (AMDPCS) after Bde TOC | Completeness | A | |
| 17. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 1.2 | System Candidate Selection and Justification, last paragraph, rewrite as follows and move to last paragraph of chapter 3: "During the March 02 Block 1 WIPT, team members discussed the logic of adding particular TBMD systems to be fielded by the services but currently falling within the control of the Missile Defense Agency. The screening criteria was then applied to these TBMD systems to form a more complete set of systems which will contribute to improved SIAP across the full spectrum of Theater Missile Defense." | Is part of the process for selection. | A | |

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| 18. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 5 | Block 1 Way Ahead: Change section #"2" to #"5". | Format Correction | A | |
| 19. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7 | Block 1 Way Ahead, 1st para: 2nd sentence, change "analysis" to "analyses". | Clarity | A | |
| 20. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 5 | 7.10 | Block 1 Way Ahead, 1st para: 3rd sentence, delete "as a starting point", change "equipment-in-the-loop" to "hardware-in-the-loop". | Unnecessary words and correction | A | |
| 21. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 14.15 | Block 1 Way Ahead, 2nd para: 2nd sentence, after "The analyses are expected to result in" add "root cause problems which will lead to". | Addition, adds root cause problem analysis for problem definition. | R | |
| 22. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 5 | 17.19 | Block 1 Way Ahead, 3rd para: 2nd sentence, after "with the requirements" add "and standards", change ""gaps" in the requirements." to ""gaps" in those requirements and/or standards." | Adds standards, problems may be with vagueness in standards. | A | |

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| 23. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 5 | 7.8 | Change to read "Using this list as a starting point, the SIAP SE, in conjunction with the Services, will identify a subset of systems to be used in modeling and simulation, equipment-in-the-loop (HWIL), and Operator-in-the-Loop (OITL) analyses as well as in the Common Reference Scenario (CRS) vignettes. | This is a more correct representation of the process. | A | |
| 24. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | 6 | 1.2 | Block 1 Way Ahead, 4th para: 1st sentence, change "candidate for implementation of all the Block 1 improvements." to "candidate for implementation of all recommended Block 1 system fixes." | Not all fixes may need to be implemented in all systems. | A | |
| 25. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | S | 6 | 2.4 | Change to read "The analyses conducted by the Analysis Branch (with support from the Services), using appropriate tools, will determine the improvement to the SIAP for each of the identified Block 1 improvements." | This is a more correct representation of the process. | A | |

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| 26. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | A | 6 | 7.9 | Block 1 Way Ahead, 4th para: last sentence, change ""for presentation to the Joint" to "for review and approval by the Joint" delete "for their approval" | Clarity | A | |
| 27. | Army SIAP Block 1 Engineering Team U. S. Army PEO AMD Huntsville, AL | S | A-2 | | Appendix A, Candidate Block 1 System Tables: What data is required for the ORD block and how will we handle capability based requirements with MDA systems? | Clarity | R | Not Applicable |
| 28. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 3 | Delete the parenthetical expression "(Lower Tier Project)" | Army Lower Tier Project Office manages both PATRIOT and MEADS systems. | A | |
| 29. | Army SIAP Block 1 Engineering Team U.S. Army PEO AMD Huntsville, AL | A | A-2 | 7 | Change "SLAMRAM" to "SLAMRAAM" | Correctness. | A | |

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| 30. | HQDA, G8, FDS | S | 4 | Table 1 | Recommend ATACM, HIMARS and MLRS be deleted from Block1 fixes | All SIAP information on these systems is provided to AFATDs. Therefore the systems should be removed from the list if it is not shown to be a direct contributor to the SIAP. AFATDs should be the only Block 1 system in this Army category. | R | SIAP is merely the care taker of the list. Services are responsible for their own representatives. |
| 31. | HQDA, G8, FDS | A | A-2 | Chart | Change HIMARS to ACAT 1D | On 16 May 02 the DAE designated HIMARS to 1D | A | |
| 32. | HQDA, G8, FDS | S | A-2 | Chart | Recommend ATACM, HIMARS and MLRS be deleted from Block1 fixes | All SIAP information on these systems is provided to AFATDs. Therefore the systems should be removed from the list if it is not shown to be a direct contributor to the SIAP. AFATDs should be the only Block 1 system in this Army category. | R | SIAP is merely the care taker of the list. Services are responsible for their own representatives. |